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APPLICANT : MITSUBISHI MOTORS CORP;

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TITLE : ALLOY FOR GRAPHITE SPHEROIDIZING TREATMENT IN MOLD AND METHOD FOR TREATING THEREOF

ABSTRACT : PURPOSE: To incorporate Bi into a cast iron while strictly controlling its content, to obtain a spheroidal graphite cast iron having finer graphite structure and superior physical properties, and to easily obtain a thinner spheroidal graphite cast iron with certainty while obviating heat treatment.

CONSTITUTION: This alloy is an alloy for graphite spheroidizing treatment in mold, which is charged into a reaction chamber provided on the midway in a runner and melted when a molten cast iron passes through the reaction chamber and used to apply graphite spheroidizing treatment to the molten cast iron. Further, this alloy is an alloy for graphite spheroidizing treatment in mold, which has a composition consisting of, by weight, 3-8% Mg, 0.4-9% rare earth elements, 0.4-3% Bi, 40-50% Si, and the balance Fe with inevitable impurities and is refined to  $\leq 0.5\%$  Al content and  $\leq 0.1\%$  total oxygen content and also has a grain size range of 0.5-5mm. Graphite spheroidizing treatment in mold is done by using this alloy.

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